

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2005/004729

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F01N3/025 F01N9/00 F01N3/08 F01N3/035

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 574 589 A (HASEGAWA ET AL) 11 March 1986 (1986-03-11)	1-3, 7-10,14
Y	column 3, line 25 - column 6, line 41; figures 1,3,5	11-13
Y	EP 1 174 600 A (TOYOTA JIDOSHA KABUSHIKI KAISHA) 23 January 2002 (2002-01-23) paragraphs '0094! - '0099!; figures	11-13
X	EP 1 234 959 A (ISUZU MOTORS LIMITED) 28 August 2002 (2002-08-28) paragraphs '0051!, '0052!; figure 3	1-3, 7-10,14
X	FR 2 829 798 A (RENAULT) 21 March 2003 (2003-03-21) page 4, line 28 - page 6, line 26; figures	1-10,14
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

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Date of the actual completion of the international search

4 July 2005

Date of mailing of the international search report

11/07/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/230079 A1 (KUBOSHIMA TSUKASA ET AL) 18 December 2003 (2003-12-18) abstract; figures 6,10,13,14,17 -----	1-10,14
A	US 5 511 413 A (PFISTER ET AL) 30 April 1996 (1996-04-30) the whole document -----	1-14

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Information on patent family members

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